Index of Claims

| App | licatio | n/Cor | ntrol | No. |
|-----|---------|-------|-------|-----|
|-----|---------|-------|-------|-----|

09/893,292

Examiner

Dennis-Doon Chow

Applicant(s)/Patent under Reexamination

ARMSTRONG, BRAD A.

Art Unit

2677

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla      | aim      | n Date   |                |  |              |                                      |          | Claim Date |  |   |  |          |          | Claim Date |              |                 |                         |              |                 |     |       |            |          |          |              |           |              |            |          |          |
|----------|----------|--|----------------|--|--------------|--------------------------------------|----------|------------|--|---|--|----------|----------|------------|--------------|-----------------|-------------------------|--------------|-----------------|-----|-------|------------|----------|----------|--------------|-----------|--------------|------------|----------|----------|
|          |          |  |                |  | Τ.           | ا                                    |          |            |  |   |  |          | T        | T          |              |                 | T                       |              |                 |     |       |            |          | $\top$   |              |           |              | T          | $\top$   | 7        |
| Final    | Original |  |                |  | `            | 10                                   | 1        |            |  |   | Final  | Original |          |            |              |                 |                         |              |                 |     | Final | Original   |          |          | 1            |           |              |            |          |          |
| 遣        | į        |  |                |  | `            | 1/2                                  |          |            |  |   | 효  | 훒        |          |            |              |                 |                         |              |                 |     | ίĒ    | iğ         |          |          |              |           |              |            | İ        |          |
|          | U        | L  |                |  | $\perp$      | 4                                    | 1        |            |  |   |  |          |          |            |              |                 |                         |              |                 |     |       |            |          |          |              | $\perp$   |              |            | $\bot$   | ╛        |
|          | 1        |  |                | 130  | <b>§</b>     |                                      |          |            |  |   |  | 51       | $\bot$   |            | L            | П               |                         |              |                 | [   |       | 101        | [        |          |              | ļ         |              |            | $\perp$  | _        |
|          | 2        |  |                | 11/1   | 7            | <u> </u>                             |          | Ш          |  |   |  | 52       |          |            |              | $\sqcup$        |                         |              | Ш               |     |       | 102        |          |          | $\perp$      | $\perp$   | Ш            |            |          | _        |
|          | 3        | _  | Ш              | 2  |              |                                      | _        |            |  |   |  | 53       | _        | $\bot$     |              |                 | _                       | $\perp$      | _               |     |       | 103        | _        |          | 4            | 4         | _            | _          | _        | _        |
|          | 4        |  |                |  | _            | <u>Ļ</u> ,                           |          |            |  |   |  | 54       | _        | <b></b>    | -            |                 | +                       |              | Щ               |     |       | 104        |          | +        |              | +         |              | _          | +        | 4        |
|          | 5        | _  | Щ              |  | 7 3          | Į✓                                   |          |            |  |   | L  | 55       |          |            | <del> </del> |                 | _                       | +            | _               |     |       | 105        | $\dashv$ | -        | +            | ╁         | Н            | -          | -        | _        |
|          | 6        | <u> </u>   |                | 19   | 4            | Į √                                  | 1_       |            |  |   | <u> </u>   | 56       | -        | -          | +-           | -               | $\dashv$                | -            | Щ               |     |       | 106        | 4        |          | +            | +         | Н            | -          | +        | 4        |
|          | 7        | <u> </u>   | $\vdash$       |  | $\bot$       | ⊢                                    | -        | $\vdash$   |  |   |  | 57<br>58 |          | +          | ╀            |                 | 4-                      | +            |                 |     |       | 107        | +        | _        | +            | +         | Н            |            | +        | $\dashv$ |
|          | 8        | <u> </u>   | H              |  | +-           | ┢                                    | -        | $\vdash$   |  |   |  | 59       |          | +          | +            | +               | +                       | +            | $\vdash$        |     |       | 108<br>109 | -        |          | +-           | ╁         | Н            | +          | +        | $\dashv$ |
|          | 9        | ├—   | $\vdash$       |  | <del> </del> | 1/                                   | ╁        | Н          |  |   |  | 60       | $\dashv$ | +-         | +            | $\dashv$        |                         | +            | $\vdash$        |     |       | 110        | $\dashv$ | +        | +            | +         | Н            | +          | +        | ┨        |
| -        | 11       | -  | Н              | 20   | 14           | 1                                    | ╁        | Н          |  |   |  | 61       | +        | +          | +-           |                 | +                       |              | $\dashv$        |     |       | 111        | -+       | +        | +            | +         | Н            | $\dashv$   | +        | ┨        |
| H-       | 12       | -  | $\vdash$       | 7  | 4            | ۲                                    | 1        | $\vdash$   |  |   | $\vdash \vdash \vdash$                           | 62       | +        | +          | +            | +               | $\dashv$                | +            | $\vdash \vdash$ |     |       | 112        | $\dashv$ | $\dashv$ | +            | +         | Н            | $\dashv$   | $\dashv$ | $\dashv$ |
|          | 13       | <del>                                     </del> | $\vdash$       | <del>                                     </del> | +            | +                                    | +        | Н          |  |   |  | 63       | $\dashv$ | +          | +            | $\vdash$        | +                       | +            | H               |     |       | 113        | $\dashv$ | _        | +            | $\top$    | Н            | +          | $\dashv$ | $\dashv$ |
|          | 14       |  |                | 72   | 21           | 7                                    | $\vdash$ | $\vdash$   |  |   | $\vdash \vdash$                                  | 64       | $\dashv$ | $\top$     | T            | $\vdash$        | +                       | +            | $\vdash \vdash$ | i i |       | 114        | $\dashv$ |          | T            | $\dagger$ | $\vdash$     | $\dashv$   | $\neg$   | ┨        |
|          | 15       | $\vdash$   | $\vdash$       | 1  | 1            | 1                                    | $t^-$    | Н          |  |   | $\vdash \vdash \vdash$                           | 65       | $\top$   | $\top$     | 1            | $\vdash \vdash$ | $\dashv$                | +            | Н               |     |       | 115        | _        |          | T            | $\dagger$ |              | $\dashv$   | $\top$   | ٦        |
|          | 16       | T  | П              | -  | 4            | V                                    | 1        | П          |  |   | $\Box$   | 66       | $\neg$   | 1          |              | $\Box$          | 1                       | 1            | -               |     |       | 116        | $\neg$   |          | $\top$       | $\top$    | П            | $\top$     | $\top$   | ٦        |
|          | 17       |  | П              | جد   | 10           |                                      |          |            |  |   |  | 67       | $\neg$   |            |              |                 |                         |              |                 |     |       | 117        |          |          | $\perp$      | $\perp$   |              |            | 1        | ]        |
|          | 18       |  |                |  | 1            |                                      |          |            |  |   |  | 68       | T        |            |              |                 | $\neg$                  | $\top$       |                 |     |       | 118        |          |          |              |           |              |            |          |          |
|          | 19       |  |                |  |              |                                      |          | П          |  |   |  | 69       |          | $\top$     |              | П               | $\neg \vdash$           |              |                 |     |       | 119        |          |          |              |           |              |            |          |          |
|          | 20       | Г  |                |  |              |                                      |          |            |  |   |  | 70       |          |            |              |                 |                         |              |                 |     |       | 120        |          |          | T            |           |              |            |          |          |
|          | 21       |  |                |  |              |                                      |          |            |  |   |  | 71       |          |            |              |                 |                         |              |                 |     |       | 121        |          |          |              |           | Ш            |            | $\perp$  | _        |
| Ĺ        | 22       |  |                |  |              |                                      |          |            |  |   |  | 72       |          |            | ļ.,          | $\Box$          |                         | $\perp$      |                 |     |       | 122        |          |          | $\perp$      |           | $oxed{oxed}$ | $\perp$    |          | _        |
| L        | 23       | _  |                |  | <u> </u>     |                                      | <u>L</u> |            |  |   |  | 73       |          |            | $\perp$      | Ц.              |                         | _            |                 |     |       | 123        | _        | _        | ┸            | _         | _            | _          | _        | _        |
| L        | 24       |  |                |  |              |                                      | <u> </u> |            |  |   |  | 74       | _        |            | <del> </del> | Ш               | $\bot$                  |              |                 |     |       | 124        | _        | _ _      | _            | $\bot$    | Ш            | _          |          | _        |
| <u> </u> | 25       | _  | Ш              |  | 4            | <u> </u>                             | <u> </u> | Ш          |  |   |  | 75       |          | <u> </u>   | 1            | $\vdash$        | _                       |              |                 |     |       | 125        | _        |          | +-           | +         | Н            | $\dashv$   | +        | 4        |
| ļ        | 26       | <u> </u>   |                |  | +            | 1                                    | <u> </u> |            |  |   | $\vdash \vdash \vdash$                           | 76       |          | -          | ┿            |                 | +                       | -            |                 |     |       | 126        |          |          | +            |           | H            | $\dashv$   | +        | 4        |
|          | 27       | <u> </u>   |                | <del>                                     </del> | -            |                                      | -        | -          |  | 1 | $\vdash$   | 77<br>78 |          | -          | ┯            | $\vdash$        | +                       | +            |                 |     |       | 127<br>128 | +        |          | ╁            | +         | Н            | $\dashv$   | +        | $\dashv$ |
|          | 28<br>29 | -  |                | $\vdash \vdash$                                  | +            | $\vdash$                             | ┢        | -          |  |   |  | 79       |          |            | +            | -               | +                       |              |                 |     |       | 129        |          |          | +-           | +         | Н            | -          |          | $\dashv$ |
|          | 30       | -  |                | $\vdash$   | +            | ┿                                    | ┼-       | $\vdash$   |  |   |  | 80       | +        | +          | ╁            | $\vdash$        | -                       | +            | Н               |     |       | 130        |          | +        | ┿            | +-        | $\vdash$     | $\dashv$   | +        | $\dashv$ |
|          | 31       | ├  | $\vdash$       | $\vdash$   | +-           | $\vdash$                             | ╁┈       | $\vdash$   |  |   |  | 81       | +        | +          | +            |                 | _                       | +            | Н               |     |       | 131        | +        | +        | ╁            | +-        | H            | $\dashv$   | +        | $\dashv$ |
|          | 32       | -  | $\vdash$       |  | +            | †                                    | +        | Н          | -  |   |  | 82       | $\dashv$ | +          | T            | $\vdash$        |                         | $\top$       |                 |     |       | 132        | $\dashv$ | _        | +            | 1         | П            | $\dashv$   | 十        | ┪        |
|          | 33       | <del> </del>                                     | $\vdash$       |  | $\top$       | 1                                    | t        |            | -  |   |  | 83       | 1        | $\top$     | T            | $\vdash$        | $\top$                  |              | $\vdash \vdash$ |     |       | 133        | $\dashv$ | $\top$   | $\top$       | 1         |              | 1          | $\top$   | 7        |
|          | 34       | -  | Г              |  | $\top$       | 十                                    | T        | П          |  |   |  | 84       |          | 1          | †            | $\sqcap$        | 1                       | 1            | П               |     |       | 134        | $\neg$   | $\Box$   |              |           |              |            | $\top$   | ٦        |
|          | 35       |  |                |  |              | 1                                    | T        | П          |  |   |  | 85       | 7        |            |              | П               | $\neg$                  |              |                 |     |       | 135        |          | _        | Τ            | Ι         |              |            |          |          |
|          | 36       | Τ  | Г              |  |              | Τ                                    |          | П          |  |   |  | 86       |          |            |              |                 | 丁                       | $oxed{oxed}$ |                 |     |       | 136        |          |          | $\perp$      | Ι         |              |            |          |          |
|          | 37       |  |                |  |              |                                      |          |            |  |   |  | 87       |          |            | $oxed{oxed}$ |                 | $oldsymbol{\mathbb{T}}$ |              |                 |     |       | 137        |          |          | $oxed{\Box}$ |           |              |            | $\perp$  |          |
|          | 38       |  |                |  |              |                                      |          |            |  |   |  | 88       |          |            |              | $\square$       |                         |              |                 |     |       | 138        |          | $\bot$   | 1            | $\perp$   | $\Box$       | $\Box$     | $\perp$  | $\Box$   |
|          | 39       |  |                |  | L            |                                      | $\Box$   |            |  |   |  | 89       |          |            |              |                 |                         |              | Ш               |     | ļ     | 139        | ļ        |          | $\perp$      | 1_        | Ш            | $\Box$     | $\bot$   | $\bot$   |
|          | 40       | Ĺ  |                |  | Ļ            | <u> </u>                             | <u> </u> |            | _  |   |  | 90       |          |            | $\perp$      | Щ               |                         |              | Ш               |     |       | 140        | $\dashv$ | $\bot$   | _            | 1_        | _            | $\sqcup$   | 4        | _        |
|          | 41       | <u> </u>   | Щ              | $oxed{oxed}$                                     | 1            | ـــــ                                | ↓_       | Щ          | <u></u>                                      |   |  | 91       |          | 4          | 1            | $\sqcup$        | _ _                     | -            | $\square$       |     |       | 141        | _        | _        | $\perp$      | -         | $\vdash$     | $\vdash$   | +        | 4        |
| <u> </u> | 42       | <u> </u>   | L_             | igspace  | 1            | ↓_                                   | 1_       | Ш          |  |   | <u> </u>   | 92       | $\perp$  | $\bot$     | 1            | $\sqcup$        |                         |              | $\vdash$        |     |       | 142        |          | 4        | +            |           | $\vdash$     | $\vdash$   | +        | 4        |
| <u></u>  | 43       | <u> </u>   |                |  | 4            |                                      | ــــ     | Ш          | <u> </u>                                     |   |  | 93       | $\perp$  | +          |              | $\vdash$        |                         | -            | Н               |     | ļ     | 143        | $\dashv$ |          | +            | +         | -            | $\vdash$   | +        | 4        |
| <u> </u> | 44       |  | $\vdash$       | -  | -            | ┼-                                   | 1        | $\vdash$   | <u> </u>                                     |   | ļ  | 94       | $\dashv$ | +          | ╂-           |                 |                         | +            | Н               |     |       | 144<br>145 | $\dashv$ |          | +            | +-        | $\vdash$     | $\vdash$   | +        | $\dashv$ |
| <u> </u> | 45       | <del> </del>                                     | -              | ⊢-   | +-           | ┼-                                   | $\vdash$ | $\vdash$   | <u> </u>                                     |   | <del>                                     </del> | 95       | +        | +          | +            | $\vdash$        | -                       | +-           | Н               |     |       | 146        | $\dashv$ |          | +            | +         | $\vdash$     | $\dashv$   | +        | $\dashv$ |
| <u> </u> | 46       | -  | <del>   </del> | -  | +            | +                                    | +-       | $\vdash$   | <u> </u>                                     |   |  | 96<br>97 | +        | +-         | +            | $\vdash$        | +                       | +-           | Н               |     |       | 146        | -        | +        | +            | +-        | $\vdash$     | $\vdash$   | +        | $\dashv$ |
|          | 47<br>48 | -  | -              | $\vdash \vdash$                                  | +-           | +                                    | ┼-       | $\vdash$   |  |   | ┝╧   | 98       |          | +          | +            | ╁               | -                       | +-           | Н               |     |       | 148        | $\dashv$ | -        | ╁            | +         | $\vdash$     | $\dashv$   | +        | $\dashv$ |
| <u> </u> | 48       | $\vdash$   | -              | $\vdash$   | ╁            | +                                    | $\vdash$ | $\vdash$   |  |   |  | 99       | $\dashv$ | +          | +-           | $\vdash \vdash$ | +                       | +            | $\vdash \vdash$ |     | -     | 149        | $\dashv$ | +        | +            | +         | 1            | $\vdash +$ | +        | $\dashv$ |
|          | 50       | 1-   | $\vdash$       | $\vdash$   | +            | +                                    | +        | $\vdash$   | <u> —                                   </u> |   |  | 100      | $\dashv$ |            | +            | $\vdash$        |                         | +            | Н               |     |       | 150        |          | +        | ╁            | +         | $\vdash$     | $\vdash$   | +        | $\dashv$ |
| L        | 1 30     | Ц.   | Щ.             | Li_  |              | ــــــــــــــــــــــــــــــــــــ | ١        | 1          | Щ.   | 1 |  | 100      |          |            |              |                 |                         |              |                 | 1(  | Щ.    | 150        |          |          |              |           |              |            |          |          |